STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/589,955
Source:	1FWP
Date Processed by STIC:	8/28/06
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/589, 955
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWD

RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/589,955

TIME: 09:40:09

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08282006\J589955.raw

3 <110> APPLICANT: National Institute of Advanced Industrial Science and Technology see Fun 4 m Enn bunnary Ukert Kinki University Kitakyushu Foundation for the Advancement of Industry 7 <120> TITLE OF INVENTION: Cytoplasm-localized DNA and RNA 9 <130> FILE REFERENCE: 05-102NIQ C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/589,955 C--> 11 <141> CURRENT FILING DATE: 2006-08-18 11 <150> PRIOR APPLICATION NUMBER: JP 2004-045488 Does Not Comply 12 <151> PRIOR FILING DATE: 2004-02-20 Corrected Diskette Needed 14 <150> PRIOR APPLICATION NUMBER: JP 2004-136228 15 <151> PRIOR FILING DATE: 2004-04-30 su pp 1-6 17 <160> NUMBER OF SEQ ID NOS: 28 19 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

133 <210> SEQ ID NO: 9

134 <211> LENGTH: 21

135 <212> TYPE KNA

136 <213> ORGANISM: Artificial

138 <220> FEATURE:

139 <223> OTHER INFORMATION: Probe

141 <400> SEQUENCE: 9

E--> 142 cuacaucacg ccagucaact t

145 <210> SEQ ID NO: 10

146 <211> LENGTH: 21

147 <212> TYPE: RNA

148 <213> ORGANISM: Artificial

150 <220> FEATURE:

151 <223> OTHER INFORMATION: Probe

153 <400> SEQUENCE: 10

E--> 154 guugacuggc gugauguag€ t

259 <210> SEQ ID NO: 19

260 <211> LENGTH: 22

261 <212> TYPE: RNA

262 <213> ORGANISM: Artificial

264 <220> FEATURE:

265 <223> OTHER INFORMATION: Linker

267 <220> FEATURE:

268 <221> NAME/KEY: modified base

269 <222> LOCATION: (1)..(1)

270 <223> OTHER INFORMATION: Linker

T's not allowed in an RNA sequence, For a combined ONA/RNA sequence, use 12127 ONA and explain in 22207-12237 use 12127 ONA and explain in 22207-12237

same end

same

21

8/28/2006

```
DATE: 08/28/2006
                    RAW SEQUENCE LISTING
                                                            TIME: 09:40:09
                    PATENT APPLICATION: US/10/589,955
                                                                n'n' can only represent
a single hucleotide, nothing
else
                     Input Set : A:\PTO.RJ.txt
                    Output Set: N:\CRF4\08282006\J589955.raw
     273 <220> FEATURE:
     274 <221> NAME/KEY: misc feature
     275 <222> LOCATION: (1)..(1)
     276 <223 > OTHER INFORMATION: "n/" is -O-CH.sub.2CH.sub.2-O-CH.sub.2CH.sub.2-NH.sub.2
     279 <400> SEQUENCE: 19
E--> 280 ncuacaucac gccagucaac (tt
                                                                              22
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     284 <211> LENGTH: 22
     285 <212> TYPE; RNA
     286 <213> ORGANISM: Artificial
     288 <220> FEATURE:
     289 <223> OTHER INFORMATION: Linker
     291 <220> FEATURE:
     292 <221> NAME/KEY: modified base
                                                  same en as above
     293 <222> LOCATION: (1)..(1)
     294 <223> OTHER INFORMATION: Linker
     297 <220> FEATURE:
     298 <221> NAME/KEY: misc feature
     299 <222> LOCATION: (1)..(1)
     300 <223> OTHER INFORMATION: "n" is -O-CH.sub.2CH.sub.2-O-CH.sub.2CH.sub.2-NH.sub.2
     303 <400> SEQUENCE: 20
E--> 304 nguugacugg cgugauguag/tt
    310 <213> ORGANISM: Artificial
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Modified thymidine
315 <220> FEATURE:
316 <221> NAME/VEV
     307 <210> SEQ ID NO: 21
    E--> 322 cuacaucacg ccagucaact t
     325 <210> SEQ ID NO: 22
     326 <211> LENGTH: 21
                                             same eur as above
     327 <212> TYPE: RNA
     328 <213> ORGANISM: Artificial
     330 <220> FEATURE:
     331 <223 > OTHER INFORMATION: (Modified thymidine
     333 <220> FEATURE:
     334 <221> NAME/KEY: modified base
     335 <222> LOCATION: (20)..(20)
     336 <223> OTHER INFORMATION. Modified thymidine
     339 <400> SEQUENCE: 22
E--> 340 guugacuggc gugauguagt t
                                                                              21
     343 <210> SEQ ID NO: 23
     344 <211> LENGTH: 21
     345 <212> TYPE: (RNA)
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DATE: 08/28/2006

TIME: 09:40:09

Output Set: N:\CRF4\08282006\J589955.raw 346 <213> ORGANISM: Artificial 348 <220> FEATURE: 349 <223> OTHER INFORMATION: Modified thymidine 351 <220> FEATURE: 352 <221> NAME/KEY: modified base 353 <222> LOCATION: (6)..(6) 354 <223> OTHER INFORMATION: Modified thymidine 357 <220> FEATURE: 358 <221> NAME/KEY: modified_base 359 <222> LOCATION: (15)..(15) 360 <223> OTHER INFORMATION: Modified thymidine 363 <400> SEQUENCE: 23 E--> 364 cuacaucacg ccagucaa@t t 21 367 <210> SEQ ID NO: 24 368 <211> LENGTH: 369 <212> TYPE: (RNA) 370 <213> ORGANISM: Artificial 372 <220> FEATURE: 373 <223> OTHER INFORMATION (Modified thymidine 375 <220> FEATURE: 376 <221> NAME/KEY: modified_base 377 <222> LOCATION: (7)..(7) 378 <223> OTHER INFORMATION: Modified thymidine 381 <220> FEATURE: 382 <221> NAME/KEY: modified base 383 <222> LOCATION: (12)..(12) 384 <223> OTHER INFORMATION: Modified thymidine 387 <220> FEATURE: 388 <221> NAME/KEY: modified_base 389 <222> LOCATION: (15)..(15) 390 <223> OTHER INFORMATION: Modified thymidine 393 <220> FEATURE: 394 <221> NAME/KEY: modified base 395 <222> LOCATION: (17)..(17) 396 <223> OTHER INFORMATION: Modified thymidine 399 <400> SEQUENCE: 24 E--> 400 guugacuggc gugauguagt t 21 403 <210> SEQ ID NO: 25 404 <211> LENGTH: -23 405 <212> TYPE: RNA 406 <213> ORGANISM: Artificial 408 <220> FEATURE: 409 <223> OTHER INFORMATION: Linker 411 <220> FEATURE: 412 <221> NAME/KEY: modified_base 413 <222> LOCATION: (1)..(1) 414 <223> OTHER INFORMATION: Linker 417 <220> FEATURE: 418 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING

Input Set : A:\PTO.RJ.txt

PATENT APPLICATION: US/10/589,955

DATE: 08/28/2006

TIME: 09:40:09

PATENT APPLICATION: US/10/589,955 Input Set : A:\PTO.RJ.txt Output Set: N:\CRF4\08282006\J589955.raw 419 <222> LOCATION: (1)..(1) ('n" is -O-CH.sub.2CH.sub.2-O-CH.sub.2CH.sub.2-NH-R.sup.1 420 <223> OTHER INFORMATION: 423 <400> SEQUENCE: 25 22 E--> 424 ncuacaucac gccagucaac(tt 427 <210> SEQ ID NO: 26 428 <211> LENGTH: 21 429 <212> TYPE: RNA 430 <213> ORGANISM: Artificial 432 <220> FEATURE: 433 <223> OTHER INFORMATION: Modified thymidine 435 <220> FEATURE: 436 <221> NAME/KEY: modified base enn 437 <222> LOCATION: (20)..(20) 438 <223 > OTHER INFORMATION: (Modified thymidine) 441 <400> SEQUENCE: 26 E--> 442 cuacaucacg ccagucaaqt t 21 445 <210> SEQ ID NO: 27 446 <211> LENGTH: 447 <212> TYPE: RNA 448 <213> ORGANISM: Artificial 450 <220> FEATURE: 451 <223> OTHER INFORMATION: Modified thymidine 453 <220> FEATURE: 454 <221> NAME/KEY: modified base 455 <222> LOCATION: (1)..(1) 456 <223> OTHER INFORMATION: Linker 459 <220> FEATURE: 460 <221> NAME/KEY: modified base enn 461 <222> LOCATION: (21)..(21) 462 <223> OTHER INFORMATION: (Modified thymidine 465 <220> FEATURE: 466 <221> NAME/KEY: misc feature 467 <222> LOCATION: (1)..(1) is -O-CH.sub.2CH.sub.2-O-CH.sub.2CH.sub.2-NH-R.sup.1 468 <223> OTHER INFORMATION: "n" 471 <400> SEQUENCE: 27 22 E--> 472 ncuacaucac gccagucaaq tt 475 <210> SEQ ID NO: 28 476 <211> LENGTH: 22 477 <212> TYPE : RNA 478 <213> ORGANISM: Artificial 480 <220> FEATURE: 481 <223> OTHER INFORMATION: Modified thymidine 483 <220> FEATURE: 484 <221> NAME/KEY: modified base 485 <222> LOCATION: (1)..(1) 486 <223> OTHER INFORMATION: Linker 489 <220> FEATURE: 490 <221> NAME/KEY: modified_base 491 <222> LOCATION: (3)..(3)

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 08/28/2006
PATENT APPLICATION: US/10/589,955 TIME: 09:40:09

Input Set: A:\PTO.RJ.txt
Output Set: N:\CRF4\08282006\J589955.raw

492 <223> OTHER INFORMATION: Modified thymidine
495 <220> FEATURE:
496 <221> NAME/KEY: modified_base
497 <222> LOCATION: (7)..(7)
498 <223> OTHER INFORMATION: Modified thymidine
501 <220> FEATURE:

502 <221> NAME/KEY: modified_base
503 <222> LOCATION: (16)..(16)

504 <223> OTHER INFORMATION: Modified thymidine 507 <220> FEATURE:

508 <221> NAME/KEY: modified_base 509 <222> LOCATION: (21)..(21)

510 <223> OTHER INFORMATION: Modified thymidine

513 <220> FEATURE:

514 <221> NAME/KEY: misc_feature

515 <222> LOCATION: (1)..(1)

516 <223> OTHER INFORMATION: "n" is -O-CH.sub.2CH.sub.2-O-CH.sub.2CH.sub.2NH-R.sup.1

519 <400> SEQUENCE: 28

E--> 520 ncuacaucac gccagucaac(tt

10/589,955 1) do not use scientific symbols. They carrot be <210> <211> 2) invalid (2137 response <212> PRT <213>/PKIf; (see eten 10 on Eur <400> 2 Sunnay Steet) Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile <210> <211> 13 <212> MAPKK <213>/ This type I ever appears in subsequent

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/589,955

DATE: 08/28/2006

TIME: 09:40:10

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08282006\J589955.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:142 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:154 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0 L:280 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:304 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:322 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:340 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:364 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:400 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:424 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:442 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0 L:472 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2 L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0 L:520 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:2